

“Maybe you’re Merlin the wizard.”

—Allie Pennington, Avalon High (2010)

THE TRIVIAL NOTIONS SEMINAR

Taeuk Nam

will speak on

Solving Avalon

ABSTRACT

Avalon is a social deduction game for 5-10 players. Like its predecessor, The Resistance, there are two randomly assigned teams of good and evil who each attempt to win three out of the five quests. A distinguishing feature is that there is a player on the good side, Merlin, who knows the evil players but must stay hidden to avoid the assassination attempt at the end of the game. We will show that there is a strategy for good that ensures that they succeed three quests without giving away any information about the identity of Merlin, and thereby win with a probability of $1 - \frac{1}{\# \text{ of good players}}$.

Thursday, October 21, 2021

at 11:30 am

Science Center, Room 232